

ABSTRACT

The present invention relates to a solid electrolyte having superior conductive properties and reliability, a 5 photovoltaic device using this electrolyte, and manufacturing methods thereof. The solid electrolyte of the present invention is a solid electrolyte having an electrolyte composition and a matrix polymer. The matrix polymer is formed by polymerization of a first compound 10 having at least two isocyanate groups and a second compound having at least two nucleophilic groups containing active hydrogen in accordance with a polyaddition reaction, and the polymerization is performed after a precursor for the matrix polymer is brought into contact with a surface on which the 15 solid electrolyte is to be formed.